

IN THE CLAIMS:

1. (Currently Amended) Device comprising:
  - a receiver comprising at least a first receiving chain configured to receive and process radio frequency signals in a first frequency band and a second receiving chain configured to receive and process radio frequency signals in a second frequency band;
  - at least a first antenna which is connected in a fixed manner to said first receiving chain and which is in addition connectable via a switching component to said second receiving chain;
  - a tuning component configured to shift a frequency response of said first antenna from said first frequency band to a second frequency band;
  - and
  - a controlling portion configured to cause said tuning component to shift said frequency response of said first antenna from said first frequency band to said second frequency band and causing said switching component to connect said first antenna in addition to said second receiving chain, in case a wideband noise is expected in said first frequency band.
2. (Previously Presented) Device according to claim 1, further comprising a communication system transmitter configured to transmit signals via a radio interface, wherein a transmission of signals by said communication system transmitter causes wideband noise in said first frequency band, and wherein wideband noise in said first frequency band is expected by said controlling portion whenever said communication system transmitter is transmitting signals causing wideband noise in said first frequency band.
3. (Previously Presented) Device according to claim 1, further comprising a second antenna, which second antenna has a frequency response at said second frequency band and which second antenna is equally connected via said switching component to said second receiving chain, wherein said controlling

portion is configured to cause said switching component to disconnect said second antenna from said second receiving chain, in case a wideband noise is expected in said first frequency band.

4. (Previously Presented) Device according to claim 3, wherein said controlling portion is configured to cause said switching component to connect said first antenna to said second receiving chain and to disconnect said second antenna from said second receiving chain, in case a wideband noise is expected in said second frequency band.
5. (Previously Presented) Device according to claim 4, further comprising a communication system transmitter configured to transmit signals via a radio interface, wherein a transmission of signals by said communication system transmitter causes wideband noise in said second frequency band, and wherein wideband noise in said second frequency band is expected by said controlling portion whenever said communication system transmitter is transmitting signals causing wideband noise in said second frequency band.
6. (Previously Presented) Device according to claim 1, wherein said receiver is a satellite based positioning system receiver for receiving and processing signals transmitted by satellites of the satellite based positioning system.
7. (Previously Presented) Device according to claim 6, wherein said first frequency band is a Global Positioning System L1 band and wherein said second frequency band is one of a Global Positioning System L2 band and a Global Positioning System L5 band.
8. (Currently Amended) Method for improving the performance of a receiver of a device, which receiver comprises at least a first receiving chain for receiving and processing radio frequency signals in a first frequency band and a second receiving chain for receiving and processing radio frequency signals in a second frequency band, wherein at least a first antenna of the device is

connected in a fixed manner to said first receiving chain and wherein said first antenna is in addition connectable via a switching component to said second receiving chain, said method comprising:

determining whether a wideband noise is expected in said first frequency band; and

shifting a frequency response of said first antenna from said first frequency band to a second frequency band and causing said switching component to connect said first antenna in addition to said second receiving chain, in case a wideband noise is determined to be expected in said first frequency band.

9. (Previously Presented) Method according to claim 8, wherein said receiver is comprised in a single device with a communication system transmitter, a transmission of signals by said communication system transmitter causing wideband noise in said first frequency band, and wherein determining whether a wideband noise is expected in said first frequency band comprises detecting whether said communication system transmitter is transmitting signals via a radio interface.
10. (Previously Presented) Method according to claim 8, wherein a second antenna is connected to said receiver, which second antenna has a frequency response at said second frequency band, said method further comprising preventing a processing of radio frequency signals received via said second antenna, in case a wideband noise is determined to be expected in said first frequency band.
11. (Previously Presented) Method according to claim 10, further comprising:
  - determining whether a wideband noise is expected in said second frequency band;
  - enabling radio frequency signals in said second frequency band received via said first antenna to be processed by said receiver, in case a

wideband noise is determined to be expected in said second frequency band; and

preventing a processing of radio frequency signals received via said second antenna by said receiver, in case a wideband noise is determined to be expected in said second frequency band.

12. (Previously Presented) Method according to claim 11, wherein said receiver is comprised in a single device with a communication system transmitter, wherein a transmission of signals by said communication system transmitter causes wideband noise in said second frequency band, and wherein determining whether a wideband noise is expected in said second frequency band comprises detecting whether said communication system transmitter is transmitting signals via a radio interface.
13. (Previously Presented) Method according to claim 8, wherein said receiver is a satellite based positioning system receiver for receiving and processing signals transmitted by satellites of the satellite based positioning system.
14. (Original) Method according to claim 13, wherein said first frequency band is a Global Positioning System L1 band and wherein said second frequency band is one of a Global Positioning System L2 band and a Global Positioning System L5 band.
15. (Previously Presented) Mobile telephone with global positioning system receiver capability, comprising:
  - a receiver having an antenna for receiving and a processor for processing global positioning system signals received at least in a first frequency band;
  - a tuning component responsive to a control signal for shifting a frequency response of said antenna from said first frequency band to a second frequency band; and
  - a control responsive to operation of said telephone acting as a radio transmitter for providing said control signal.

16. (Currently Amended) Apparatus comprising:

means for determining whether a wideband noise is expected in a first frequency band; and

means for shifting a frequency response of a first antenna from said first frequency band to a second frequency band and causing a switching component to connect a first antenna to a second receiving chain of a receiver, in case a wideband noise is determined to be expected in said first frequency band, wherein said apparatus is for improving the performance of a receiver of a device, which receiver comprises at least a first receiving chain for receiving and processing radio frequency signals in said first frequency band and a second receiving chain for receiving and processing radio frequency signals in said second frequency band, wherein ~~at least a~~ said first antenna is connected in a fixed manner to said first receiving chain and wherein said first antenna is connectable in addition via ~~a~~ said switching component to said second receiving chain.

17. (Previously Presented) Device according to claim 1, wherein said device is a mobile phone.

18. (Currently Amended) Apparatus comprising a controlling portion,

said controlling portion being configured to determine whether a wideband noise is expected in a first frequency band;

said controlling portion being configured to cause a tuning component to shift a frequency response of a first antenna from a first frequency band to a second frequency band in case a wideband noise is determined to be expected in said first frequency band, said first antenna being connected in a fixed manner to a first receiving chain for receiving and processing radio frequency signals in a first frequency band and said first antenna being connectable in addition via a switching component to a second receiving chain for receiving and processing radio frequency signals in a second frequency band; and

said controlling portion being configured to cause said switching component to connect said first antenna in addition to said second receiving chain in case a wideband noise is determined to be expected in said first frequency band.

19. (Previously Presented) Apparatus according to claim 18, wherein said controlling portion is configured to expect wideband noise in said first frequency band whenever a communication system transmitter is transmitting signals via a radio interface causing wideband noise in said first frequency band.
20. (Previously Presented) Apparatus according to claim 18, wherein said controlling portion is configured to cause said switching component to disconnect a second antenna having a frequency response at said second frequency band from said second receiving chain, in case a wideband noise is expected in said first frequency band.
21. (Previously Presented) Apparatus according to claim 20, wherein said controlling portion is configured to cause said switching component to connect said first antenna to said second receiving chain and to disconnect said second antenna from said second receiving chain, in case a wideband noise is expected in said second frequency band.
22. (Previously Presented) Apparatus according to claim 21, wherein said controlling portion is configured to expect wideband noise in said second frequency band whenever a communication system transmitter is transmitting signals via a radio interface causing wideband noise in said second frequency band